

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REPORT – A ONE-DAY WORKSHOP ON “CYBERSECURITY UNLOCKED: FROM THEORY TO TOOLS”

Title: A One-Day Workshop On “Cybersecurity Unlocked: From Theory to Tools”

Date: 13th August 2026

Venue: NEC Lab

Organized By: Department of Computer Science and Engineering Associate with CYFENCE Club@AVIT

Introduction

The Department of Computer Science and Engineering, Aarupadai Veedu Institute of Technology, in association with CYFENCE CLUB@AVIT, organized a one-day technical workshop titled “Cybersecurity Unlocked: From Theory to Tools” on 13 August 2026 at the NEC Lab. The workshop was designed to provide students with practical exposure to contemporary cybersecurity concepts, tools, threats, and security practices. With the rapid growth of cloud computing, digital services, online transactions, artificial intelligence, and connected systems, cybersecurity has become an essential competency for computer science and engineering students.

The session was handled by Mr. Vadivel Palanisami, Senior Technical Engineer, Ping Identity India Pvt. Ltd., Chennai, a cybersecurity product company. His industry experience provided participants with valuable insights into real-world cybersecurity practices and the skills expected from cybersecurity professionals.

The workshop followed a practical and application-oriented approach, connecting fundamental cybersecurity theories with industry tools, techniques, and use cases. The interaction between the resource person and students also helped participants understand the challenges involved in securing modern digital environments.

Objective of the Seminar

- To create awareness among students about the importance of cybersecurity in modern digital environments.
- To strengthen students' understanding of fundamental cybersecurity concepts and principles.

- To introduce participants to practical cybersecurity tools and techniques used in industry.
- To familiarize students with common cyber threats, vulnerabilities, and attack scenarios.
- To explain the importance of identity, authentication, authorization, and access management in cybersecurity.

Seminar Proceedings

The one-day workshop “Cybersecurity Unlocked: From Theory to Tools” commenced at 09:30 AM at the NEC Lab with an introductory session highlighting the growing importance of cybersecurity in today’s digital environment. The resource person, Mr. Vadivel Palanisami, Senior Technical Engineer, Ping Identity India Pvt. Ltd., Chennai, provided an industry-oriented overview of cybersecurity fundamentals, including confidentiality, integrity, availability, authentication, authorization, and access control. The session covered common cyber threats such as phishing, social engineering, credential attacks, malware, unauthorized access, and data breaches, with practical examples to help students understand real-world security challenges. Special emphasis was given to Identity and Access Management (IAM), secure authentication, authorization mechanisms, and the importance of protecting digital identities. The resource person also introduced participants to practical cybersecurity tools and explained how security professionals identify vulnerabilities, analyse threats, and implement appropriate security measures. Interactive discussions and practical demonstrations enabled students to connect theoretical concepts with industry applications. A dedicated interaction session addressed students’ queries related to cybersecurity technologies, security practices, career opportunities, certifications, and industry expectations. The workshop concluded with a discussion on emerging cybersecurity challenges and the importance of continuous skill development for aspiring cybersecurity professionals.

Learning Outcomes

- The workshop successfully achieved its intended objectives and provided participants with meaningful exposure to cybersecurity concepts and industry practices.

The major outcomes were:

- Enhanced Cybersecurity Awareness:

Students developed a better understanding of the importance of cybersecurity in academic, professional, and personal digital environments.

- **Improved Conceptual Understanding:**
Participants strengthened their knowledge of cybersecurity fundamentals, cyber threats, authentication, authorization, and access control.
- **Practical Orientation:**
Students gained exposure to the practical application of cybersecurity concepts and the role of security tools in real-world environments.
- **Industry-Academia Interaction:**
Interaction with an industry professional provided students with valuable insights into current industry requirements and professional practices.
- **Skill Development:**
The workshop motivated students to develop technical skills relevant to cybersecurity careers.

SDG Alignment

The workshop contributed to several United Nations Sustainable Development Goals (SDGs), particularly SDG 4 – Quality Education, by providing students with industry-oriented cybersecurity knowledge, practical exposure, and opportunities for experiential learning; SDG 8 – Decent Work and Economic Growth, by enhancing students' employability, technical competencies, career awareness, and understanding of industry requirements in the cybersecurity domain; SDG 9 – Industry, Innovation and Infrastructure, by introducing students to modern cybersecurity technologies, tools, identity and access management practices, and the importance of developing secure and resilient digital infrastructure; and SDG 16 – Peace, Justice and Strong Institutions, by promoting cybersecurity awareness, responsible digital practices, secure access management, protection of digital identities, and the development of trustworthy digital environments. Overall, the workshop supported the institution's commitment to quality technical education, industry-relevant skill development, technological innovation, employability enhancement, and responsible use of digital technologies.

Flyer



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
Vinayaka Missions Chennai Campus



DRIVEN BY ETHICS
POWERED BY DEFENSE
CYFENCE CLUB

Cordially invites you to a one-day workshop on

Cybersecurity Unl^ocked From Theory to Tools



Resource person

Mr. Vadivel Palanisami
Senior Technical Engineer
Ping Identity India Pvt Ltd
Chennai



13 August 2026



09:30 AM - 03:30 PM



NEC Lab, AVIT



VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)
Chennai Campus



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Organized by
Department of Computer Science & Engineering
in association with Cyfence Club @ AVIT

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